٦٢	.,													1/	′ 8															
Figure 1A	GENOTYPE FREQUENCY	****		A/A (0) : G/A (3): G/G (20)							C/C (13) : C/T (10) : T/T (0)						T/T (12): T/C (7) · C/C (0)			G/G (6) : G/C (12) : C/C (5)	G/G (11) : G/A (11) : A/A (1)				G/G(9): G/T (10): T/T (1)			G/G (19): G/A (4): A/A (0)	G/G (19): G/A (4): A/A (0)	G/G (19): G/A (4): A/A (0)
ALLELE	FREQUENCY		*	43:3 (0.93:0.07)	*	*	*	•		-	36:10 (0.78:0.22)	pind			7	*	31:7 (0.82:0.12)	2 (only R seq)	, #	24: 22 (0.52: 0.48)	33: 13 (0.72: 0.28)	+		*	28: 12 (0.7: 0/3)		2 (only R seq)	42:4 (0.91:0.09)	42:4 (0.91:0.09)	42:4 (0.91:0.09)
	PROTEIN		Pro/Leu (43)	His/Arg (111)	Cys/Tyr (141)	Arg/Trp (206)	Ser/Ser (225)	Lcu/Lcu (284)		Pro/Ser (117)	Gly/Gly (269)	Leu/Leu (284)		Arg/Gln (3)	Arg/Arg (3)	Tyr/Ser (6)	Phe/Ser (7)	Phe/Leu (62)	Thr/Met (74)	Val/Leu (96)	Ser/Asn (171)	IIe/Val (191)		Gly/Ser (20)	Ser/IIe (26)	Arg/Cys (79)	Pro/Leu (113)	Arg/Arg (121)	Cys/Tyr (167)	Arg/Gln (213)
	RNA		128	332	422	919	675	850		349	807	852		••	6	17	70	186	221	286	512	571	-	58	- 11	235	338	363	200	638
	GENOME		5	A/G	G/A	5	5	T/C		5	5	5		G/A	O/C	A/C	T/C	T/A	5	2/5	G/A	G/A		G/A	G/T	5	5			G/A (
	NS.		152234231	rs41469	rs2234232	rs2234233	rs2234234	152234235		NEW	rs2270009	NEW		rs2233995	rs2233996	rs2233997	rs2233998	rs2233999	rs2234000	rs2234001	rs2234002	rs2234003		rs2234013	rs2227264	NEW	rs2234014	NEW	NEW	rs2234015
. Commode	48078 - 40877 ()	(-) /7964 - 07604							17576 - 18526 (+)				31906 - 31805 (+)										43779 - 44678 (+)				-			
4 5	e s	ŝ							316				239								•		299							
SIZE	1 S								156				006	<u> </u>									 							_
BAC	+						-	·	AC004979.1				AC004979.1						-				AC004979.1 900				-		-	-
	NM 019599	ı							NM_016943				NM_016944										NM_018980 A							-
RNA	AF227129		SEQ ID NO: 1/2						AF227130		SEQ ID INC. 3/4		AF227131	30.00	9EC 1D INC: 3/6					-			AF227132 N	, 3 , 3	 %					-
GENE	TZRI		SEOL	, 					TZR3	ar Cas	ן - 		TZR4	— di oga	3 1 1								TZRS	- CEO ID				_		-

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Figure 1B				C/C (20): C/T (3): T/T (0)					G/G (19) : G/A (2) : A/A (2)		G/G (6): G/A (12): A/A (4)		C(C(Z1): C/A (1): A/A (1)	T/T (19): T/A (3): A/A (0)	T/T (15): T/C (4): C/C (3)		•					C/C (0) : C/T (10) : T/T (13)			G/G (12): G/A (11): A/A (0)
ALLELE			*	43:3 (0.93:0.07)	*	*		2	40:6(0.87:0.13)		24:2 (0.55:0.45)		43:3 (0.93:0.07)	41:3 (0.93:0.07)	34:10 (0.77:0.23)		,	*	*		_	10:36 (0.22:0.78)	-	2	35 : 11 (0.76 : 0.24)
PROTEIN	Arg/Leu (294)		Thr/Ser (263)	Thr/Met (263)	lle/lle (276)	Met/IIc (304)		Arg/Glv (166)	Leu/Leu (183)	Tyn/His (277)	Met/Val (308)		Phe/Leu (67)	Asp/Glu (150)	Val/Alu (187)	Lcu/Phe (289)	Leu/Met (294)	Leu/Phc (304)	Pro/Leu (309)		Leu/Leu (40)	Thr/Met (156)	Lys/Thr (174)	Leu/Leu (188)	Ser/Ser (209)
RNA	881		787	788	828	912		496	549	829	922		201	450	260	298	880	910	976		120	467	521	564	627
GENOME	ďΣ		AVT	5	C'A	G/A		A/G	G/A	1/C	G/A		CA	T/A	T/C	G/T	C/A	5	5		A/G	5	A/C	A/G	G/A
SINE	152234016		rs3759251	NEW	rs3759252	rs619381		NEW	rs1548803	NEW	rs2537817		NEW	NEW	rs3741845	NEW	NEW	rs3944035	rs2159903		NEW	rs597468	NEW	NEW	NEW
POSITION		525-1481 (-)					4962 - 5891 (-)	;				8048 - 8986 (-)								24257 - 25180 (-)					
(AA)		318					308					312								307					
SIZE (BP)		957					930	-	-			939					-			924					
BAC		AC006518.17					AC006518.17					AC006518.17								AC006518.17			-	-	
		NM_023919					NM_023918					NM_023917								NM_023921					
RNA		AF227133	_	SEQ ID NO: 9/10			AF227134		SEQ ID NO: 11/12			AF227135		SEQ ID NO: 13/14						AF227136		10: 15/16			
GENE		T2R7		SEQI			TZR8		SEQID			TZR9		SEQID]						T2R10		SEQ ID NO: 15/16			

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Figure 1C	GENOTYPE FREQUENCY	A/A (19) : A/G (2) : G/G (2)				G/G (9) : G/A (8) : A/A (2)		C/C (9) : C/T (8) · T/T (2)	(=)(a)(b)	G/C (9) : G/C (8) • C/C (2)	T/T (15): T/C (4)N: 4 (0)	T/T (9) : T/G (8) ; G/G (2)	G/G (0) : G/A (7) · A/A (16)	G/G(11): G/A (9): A/A (3)		,,							C/C(19): T/C(3): T/T(0)	AA (19) : AU (3) : G(U (0)		C/C (17) · C/A (4) · A/A (7)	G/G (0): G/A (3): A/A (18)
ALLELE	TARKOGACI	40:6 (0.87:0.13)			2	26:12 (0.68:0:32)		26: 12 (0.68: 0.32)	. 1	26:12 (0.68:0.32)	34:4(0.89:0.11)	26:12 (0.68:0.32)	7:39 (0.15:0.85)	26 : 12 (0.68 : 0.32)			_		1 or 2				41:3 (0.93:0.07)	***************************************		38:8(0.83:0.17)	
PROTEIN		Asn/Ser (259)			Thr/Ala (86)	Arg/Arg (125)		Thr/Thr (100)	Val/Met (101)	Val/Val (101)	Leu/Leu (154)	Asn/Lyn (172)	Arg/His (222)	Thr/Thr (282)		Pro/Ala (49)	Arg/His (80)	Ala/Val (262)	Arg/Cys (274)	Val/IIe (296)			Ser/File (193)	Met/IIe (258)		Ser/Tyr (187)	Thr/Ala (273)
RNA	┼	776			256	375		300	301	303	460	516	999	846		145	239	785	820	988			589	874		260	817
GENOME		A/G			A/G	G/A		C/T	G/A	O/C	T/C	1/G	G/A	G/A		g/O	G/A	5	5	G/A		Ę		G/A		C'A	G/A
SNP		rs1015443			NEW	153741843		гъ2233988	NEW	152692396	rs2233989	rs846664	rs860170	rs1204014		rs713598	NEW	126866	NEW	NEW	-	NEW	NEW	rs4103817		NEW	NEW
POSITION	107298 - 108209 (-)			137165 - 138118 (-)			10968 - 11843 (+)								55139 - 56130 (+)	····•					112 - 1117 (+)				38761 - 39732 (+)		
(WW)	303			317			291								333						337 (333)				323		
SIZE (BP)	912			954			876				,			·	1002						014 (1017)				972		_
BAC CLONE	AC006518.17			AC006518.17			AC004838.2			 .					AC073647.9					_	AC073342.3 (1	· .			AC073342.3 9	·····	
	NM_023920			NM_023922			NM_016945					•			NM_176817						4			_	A		
RNA	AF227137	SEQ ID NO: 17/18		AF227138		SEQ 1D NO: 19/20	AF227139		35(1) NO: 21/22						AF494231	20.00	95Q ID NO: 23/24		 .		AF494230		0: 25/26		AF494229	- 2	7. 21129
GENE	TZRI3	II ÒEIS		TZR14		11) 12)	T2R16	9	250						T2R38	- GEO TO	1 A SECTION 1					(PTC07)	SEQ ID NO: 25/26		T2R40 /		

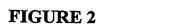
А	75	П					 	T						4/					_											
Figure 1D	GENOTYPE FREQUENCY					-			G/G (15) : G/C (0) : C/C (2)					G/G (2): G/A (0): A/A (20)	C/C (15): G/G (1): G/G (1)					C/C (18): C/T (2): T/T (2)	T/T (18): T/C (3): C/C (1)	T/T (15): T/A (4): A/A (2)			C/C (17): C/T (4): T/T (2)	G/G (18): G/A (3): A/A (2)	A/A (0): G/A (3): G/G (20)			
	ALLELE			-	-	7			30:4 (0.88:0.12)	1 (RC11)	I (RC11)	1 (RC11)	1 (RC11)	4:30 (0.12:0.88)	31:3 (0.91:0.09)	1 (RC11)	1 (RC11)	1 (RC11)		38:6(0.84:0.14)	5:39 (0.11:0.89)	34:10 (0.11:0.23)	2	, 1	8:38 (0.17:0.83)	7:39 (0.43:0.67)	3:43 (0.07:0.93)	1	1 (RC11)	
	PROTEIN			Thr/Thr (63)	Pro/Leu (127)	Val/Asp (195)	 		Trp/Ser (35)	Val/Val (90)	Arg/Gly (145)	Ser/Arg (170)	Cys/Phe (200)	Arg/His (212)	Thr/Thr (221)	Phe/Leu (294)	Trp/Arg (295)	Mct/Val (297)		Arg/Trp (35)	Ala/Ala (141)	Met/Leu (162)	Cys/Tyr (200)	Gln/Glu (217)	Ala/Val (227)	Val/IIc (240)	Ser/Ser (248)	Pro/Arg (276)	Trp/* (281)	
	RNA			189	380	284			104	270	460	510	599	635	663	887	883	688		103	423	484	599	649	089	718	744	827	843	
	GENOME			G/A	5	T/A			O/C	G/A	G/C	1/G	G/T	G/A	9/0	1/G	1/C	A/G		CT	T/C	T/A	G/A	O,O	5	G/A	A/G	- O	G/A	—
	SNP			rs1404635	NEW	NEW			NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW		NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	
	POSITION		27192 - 28115 (+)					48459 - 49388 (+)					-						109353 - 110282 (+)								***************************************			i
	(AA)	100	307					309											309										1	539
CHARL	9	Š	924					930				_							930					·					+	
240	CLONE	A C0073764 E	ACU/3264.5					AC018630.40											AC018630.40	7										
			•																										+	
	RNA	AF404737	767464.74	- 000	SEQ ID NO: 29/30			AF494237		SEQ ID NO: 31/32				-					AF494228		0: 33/34		· · ·					<u> </u>		AF494266
	GENE	T2R41	(Parcol)	(1001)	7 7 7 7 7			T2R43											TZR44		SEQ ID NO: 33/34 								-	T2R45 A

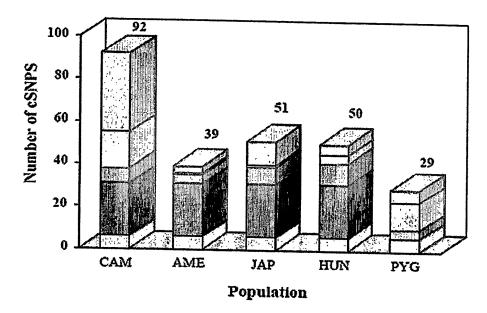
1E	ζĆ					 }	 E	\top					1		5 /8 3 €									\neg							
Figure 1 E	GENOTYPE FREQUENCY			T/T (20): T/G (3): G/G (0)	T/T (18) : T/A (3) : A/A (2)	(1) (4) (4) (4) (7) (1) (1)	VA : (1) 1100 - (2) 2 2							 C/C (17) • C/T (4) • T/T (7)	G/G (12) : G/A (9) : A/A (2)	1 viz. (() ()	T/T (4) : T/C (4) · C/C /150						C/C (17): C/T (4): T/T (2)		A/A (15) : A/G (2) · G/G (2)	C(C(15): C(T(2): T/T(2))	G/G (16): G/A (3): A/A (9)	C((15): C(A(2): A(A(2))	C/C (15) : C/A (5) : A/A (7)		A/A (15) - 4/G (2) - G/G (2)
	ALLELE FREOUENCY			43:3 (0.93:0.07)	39:7 (0.85:0.15)	40:6(0.87:0.13)	1 (RC11)		~	~	٠	6		38:8(0.83:017)	33:13 (0.72:0.28)	-	12:34 (0.26:0.74)		1	1	-	1 (PTC12)	38:8(0.83:0.17)		6:32 (0.16:0.84)	32:6(0.84:0.16)	35:3 (0.92:0.08)	32:6(0.84:0.16)	29:9(0.76:0.24)		6:32 (0.16:0.84)
	PROTEIN			Phe/Val (36)	Leu/Met (228)	Ттр/* (250)	Gln/* (288)		Gly/Gly (314)	Arg/His (307)	Leu/Trp (281)	Phe/Leu (252)		Ala/Ala (28)	Val/IIe (32)	Lys/Thr (109)	Leu/Leu (140	Arg/Ser (152)	Ile/Val (225)	IIe/Thr (240)	Val/Leu (267)	Тт/* (295)	Arg/Cys (299)		Ala/Ala (52)	Ala/Ala (87)	Val/IIe (141)	His/Gln (143)	His/Asn (148	Met/IIe (172)	Ile/Val (236)
	RNA	_		106	682	749	862		934	920	842	756		8	ቖ	326	418	456	673	719	799	885	895		156	761	421	429	442	516	902
	GENOME			1/G	T/A	G/A	5		G/A	G/A	T/G	T/G		5	G/A	A/C	T/C	AVI	A/G	T/C	26	G/A	5		A/G	5	G/A	ď	S	G/A	A/G
-	SINE			NEW	NEW	NEW	NEW		rs2597925	rs2597924	rs1669405	rs2599404		NEW	NEW	NEW	rs1868769	NEW	NEW	NEW	NEW	NEW	NEW		NEW	NEW	NEW	NEW	NEW	NEW	NEW
	POSITION		78394 - 79323 (+)					6444 - 7403 (+)					118117 - 119016 (+)				-							142813 - 143742 (+)							
	(AA)	299	(308)					319					530	-					· · · · · ·					309							
SIZE	(E)	906	(026)					086					8	 .				 -						930						_	_
BAC	CLONE	0.001004	AC018630.40					AC018630.40				+	AC018630.40		_									AC018630.40 9							
-		22	<u> </u>					33					4																		_
	RNA	AF404777	£	, SFO TO NO: 35/36				AF494233	- - 	35Q 1D NO: 3//38	_		Ar494234	 SFO ID NO: 39/40	J-72.0									AF494236	CM147	7					
	CENE	T2R46		SEOTO	\ \ \ \ \			T2R47	CE) 		1710 40	12K48	SECTION										T2R49 /	 SEO ID NO: 41/42					-	-

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Figure 1 F	GENOTVPE FREDIENCY	T/T (15): T/C (2): C/C (2)	G/G (15) : G/T (2) : T/T (2)						A/A (13) : A/T (3) : T/T (0)	C/C(7): C/T (8): T/T (8)
	FREOUENCY	32 : 6 (0.84 : 0.16)	32:6(0.84:0.16)	2			6.		3:31 (0.09:0.91)	24:22 (0.52:0.48)
	PROTEIN	Phe/Ser (252)	Arg/Leu (255)	IIe/Val (270)			Tyr/Cys (203)		Met/Leu (199)	Arg/Arg (310)
	RNA	755	764	808			809		595	930
	GENOME	T/C	C/T	A/G			G/A		ΑT	5
	SINP	NEW	NEW	NEW			rs1376251		NEW	NEW
	POSITION					153828 - 154727 (+)		62817 - 63773 (+)		
	(V		_			299		318		
SIZE	E					96		756		
BAC	CLONE					AC018630.40		AC092214.3		
								T2R60 AY114094 NM_177437 AC092214.3		
	RNA					LZK50 AF494235	SEQ ID NO: 43/44	AY114094	· ·	SEQ ID NO: 45/46
	GENE				100	12K2	SEQ ID]	T2R60		בל ID ו

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☐ 1 POPULATION
☐ 2 POPULATIONS
☐ 3 POPULATIONS
☐ 4 POPULATIONS
☐ 5 POUULATIONS

FIGURE 3

